

**Flood Control Project Maintenance
Levee Inspections**

Fall 2008 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including Boat Survey Erosion

San Joaquin River Basin

RD0404	Overall LMA Rating	Total LMA Miles				
Reclamation District No. 0404	U	4.10				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
Vegetation	0.33		0.33	8.05%		
Encroachments	0.03		0.03	0.73%	0.05	
Animal Control	0.40		0.40	9.76%		
Slope Stability	0.05		0.05	1.22%		
Erosion / Bank Caving	0.03		0.03	0.73%		
Crown Surface / Depressions / Rutting	0.38		0.38	9.27%		
Flap Gates	0.01		0.01	0.24%		
Boat Survey Erosion	0.09	0.29	1.25	30.49%		
<i>LMA Totals:</i>	1.32	0.29	2.48	60.49%	0.05	0.00

Unit No. 01 San Joaquin River	Overall Unit Rating	Total Unit Miles				
	U	2.30				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
Vegetation	0.04		0.04	1.74%		
Encroachments	0.01		0.01	0.44%		
Animal Control	0.10		0.10	4.35%		
Slope Stability	0.05		0.05	2.17%		
Erosion / Bank Caving	0.03		0.03	1.30%		
Crown Surface / Depressions / Rutting	0.27		0.27	11.74%		
Flap Gates	0.01		0.01	0.44%		
Boat Survey Erosion	0.09	0.03	0.21	9.13%		
<i>Unit Totals:</i>	0.60	0.03	0.72	31.30%	0.00	0.00

Unit No. 02 French Camp Slough	Overall Unit Rating	Total Unit Miles				
	U	1.80				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
Vegetation	0.29		0.29	16.11%		
Encroachments	0.02		0.02	1.11%	0.05	
Animal Control	0.30		0.30	16.67%		
Crown Surface / Depressions / Rutting	0.11		0.11	6.11%		
Boat Survey Erosion		0.26	1.04	57.78%		
<i>Unit Totals:</i>	0.72	0.26	1.76	97.78%	0.05	0.00

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2008 Levee Inspection Results

Reclamation District No. 0404

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			U	

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2008 Levee Inspection Results

Reclamation District No. 0404

Waterway			Bank	Unit Miles
Unit No. 01 San Joaquin River			Right	2.30
	Spring (March - May)	Summer (June - August)	Fall (September - November)	Winter (December - February)
Date of Inspection	3/10/2008		9/22/2008	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				
Unit Maintenance Rating (Fall Only)			U	

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.

(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

Comments

One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to :

DWR Summer/Winter Inspection Reports
3310 El Camino Avenue, Room LL-30
Sacramento, CA 95821-9000.

X

Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2008

Reclamation District No. 0404

Waterway						Bank	Unit Miles	Inspection Date		Inspector	
Unit No. 01 San Joaquin River						Right	2.30	09/22/2008		Richard Willoughby	
LMR Line	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Photo	Issue
	Start	End						Start	End		
1	0.23	0.23	Boat Survey	Boat Survey Erosion	LS	U	Inspector Comments: Wave wash erosion; pocket erosion; located on the inside bend	37.939480 °	-121.342730 °		901
2	0.24	0.27	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site.	37.939430 °	37.939430 °	Y	6
								-121.342620 °	-121.342620 °		
3	0.29	0.31	Boat Survey	Boat Survey Erosion	WS	U	Inspector Comments: Wave wash erosion; pocket erosion on toe; located u.s. of bend; upper slope has no protection	37.939440 °	-121.341570 °		902
4	0.34	0.34	Boat Survey	Boat Survey Erosion	WS	M	Inspector Comments: Wave was erosion above toe rip rap	37.939480 °	-121.340700 °		903
5	0.51	0.51	Boat Survey	Boat Survey Erosion	WS	M	Inspector Comments: Sliding effect on lower slope just above toe rip rap	37.939640 °	-121.337740 °		904
6	0.75	0.75	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	37.937758 °	37.937758 °		7
								-121.334149 °	-121.334149 °		
7	0.91	1.18	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	Regrade the crown roadway for proper drainage.	37.936090 °	37.934197 °		8
								-121.332320 °	-121.328345 °		
8	1.57	1.57	Boat Survey	Boat Survey Erosion	CR	M	Inspector Comments: Loss of riprap below Garwood Bridge;	37.928710 °	-121.327220 °		905
9	1.57	1.67	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.928723 °	37.927945 °		9
								-121.327207 °	-121.325933 °		
10	1.62	1.67	Earthen Levee	Slope Stability	LS	M	Repair the levee slope damaged by vehicle traffic and prevent access where possible.	37.928272 °	37.927945 °		10
								-121.326675 °	-121.325936 °		
11	1.67	1.67	Earthen Levee	Encroachments	LS	M	Tree or limb	37.927885 °	37.927885 °		3
								-121.325882 °	-121.325882 °		
12	1.80	1.80	Interior Drainage & Piping Systems	Flap Gates	WS	M	Inspector Comments: This pipe is maintain by the City of Stockton Public Works Dept.	37.926298 °	37.926298 °	Y	5
								-121.324622 °	-121.324622 °		
13	1.85	1.85	Boat Survey	Boat Survey Erosion	WS	M	Inspector Comments: Several trees (12-18" DBH) with partial roots exposed	37.925730 °	-121.324200 °		906
14	1.97	1.99	Boat Survey	Boat Survey Erosion	WS	M	Inspector Comments: Tree (24" DBH) with partial roots exposed; undermining occurring just below the tree	37.923940 °	-121.323170 °		907
15	2.17	2.17	Boat Survey	Boat Survey Erosion	WS	M	Inspector Comments: Minor cavein just above toe rip rap	37.921890 °	-121.321210 °		908
16	2.18	2.21	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.921787 °	37.921516 °		11
								-121.321032 °	-121.320604 °		
17	2.21	2.21	Boat Survey	Boat Survey Erosion	LS	M	Inspector Comments: Minor toe erosion above rip rap	37.921494 °	-121.320564 °		909

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2008

Reclamation District No. 0404

Waterway							Bank	Unit Miles	Inspection Date	Inspector	
Unit No. 01 San Joaquin River							Right	2.30	09/22/2008	Richard Willoughby	
LMR Line	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Photo	Issue
	Start	End						Start	End		
18	2.25	2.25	Boat Survey	Boat Survey Erosion	LS	M	Inspector Comments: Toe erosion above rip rap; squirrel holes	37.921146 °			910
								-121.319976 °			

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Levee Inspection Report By Mile - Fall 2008

Reclamation District No. 0404

Waterway	Bank	Unit Miles	Inspection Date	Inspector
Unit No. 01 San Joaquin River	Right	2.30	09/22/2008	Richard Willoughby

Levee Mile Report Line	2
Start Levee Mile	0.24
End Levee Mile	0.27
Location	
Category	Earthen Levee
Item	Erosion / Bank Caving
Erosion from LM 0.24 to 0.27	



Levee Mile Report Line	2
Start Levee Mile	0.24
End Levee Mile	0.27
Location	
Category	Earthen Levee
Item	Erosion / Bank Caving
Erosion at LM 0.27	



Levee Mile Report Line	12
Start Levee Mile	1.80
End Levee Mile	1.80
Location	
Category	Interior Drainage & Piping Systems
Item	Flap Gates
Flap gate at City of Stockton Pump Station LM 1.80 right hinge broken	

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Levee Inspection Report By Mile - Fall 2008

Reclamation District No. 0404

Waterway	Bank	Unit Miles	Inspection Date	Inspector
Unit No. 01 San Joaquin River	Right	2.30	09/22/2008	Richard Willoughby

Levee Mile Report Line	12
Start Levee Mile	1.80
End Levee Mile	1.80
Location	
Category	Interior Drainage & Piping Systems
Item	Flap Gates
Flap gate at City of Stockton Pump Station LM 1.80 right hinge broken	

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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2008 Levee Inspection Results

Reclamation District No. 0404

Waterway			Bank	Unit Miles
Unit No. 02 French Camp Slough			Right	1.80
	Spring (March - May)	Summer (June - August)	Fall (September - November)	Winter (December - February)
Date of Inspection	3/10/2008		9/22/2008	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				
Unit Maintenance Rating (Fall Only)			U	

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Waterway							Bank	Unit Miles	Inspection Date	Inspector	
Unit No. 02 French Camp Slough							Right	1.80	09/22/2008	Richard Willoughby	
LMR Line	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Photo	Issue
	Start	End						Start	End		
1	0.19	0.47	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.919543 ° -121.311432 °	37.919507 ° -121.311343 °		3
2	0.46	0.46	Earthen Levee	Encroachments	LS	M	Prunings	37.919549 ° -121.311546 °	37.919549 ° -121.311546 °		7
3	0.48	0.48	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.919525 ° -121.311193 °	37.919525 ° -121.311193 °		8
4	0.51	0.70	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	37.919487 ° -121.310557 °	37.919342 ° -121.307327 °		9
5	0.64	0.74	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.919073 ° -121.308340 °	37.919233 ° -121.306567 °		10
6	1.13	1.13	Earthen Levee	Encroachments	LS	M	Garbage Inspector Comments: sofa and other garbage at landside toe	37.916315 ° -121.301942 °	37.916315 ° -121.301942 °	Y	4
7	1.13	1.13	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	37.916347 ° -121.301887 °	37.916347 ° -121.301887 °		11
8	1.32	1.58	Boat Survey	Boat Survey Erosion	LS	U	Inspector Comments: Vertical rutting	37.918440 ° -121.297040 °	° °		911
9	1.47	1.52	Earthen Levee	Encroachments	LS	PO	Fences	37.918440 ° -121.296707 °	37.918517 ° -121.295763 °	Y	6
10	1.54	1.65	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	Add appropriate gravel or road base. Grade and compact.	37.918468 ° -121.295340 °	37.917843 ° -121.293470 °		5

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2008

Reclamation District No. 0404

Waterway	Bank	Unit Miles	Inspection Date	Inspector
Unit No. 02 French Camp Slough	Right	1.80	09/22/2008	Richard Willoughby

Levee Mile Report Line	6
Start Levee Mile	1.13
End Levee Mile	1.13
Location	
Category	Earthen Levee
Item	Encroachments
Sofa at landside toe LM 1.13	



Levee Mile Report Line	9
Start Levee Mile	1.47
End Levee Mile	1.52
Location	
Category	Earthen Levee
Item	Encroachments
Fence at landside shoulder from LM 1.47 to 1.52	

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